

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2005/001296

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 57103728	Ä	28-06-1982	NONE
JP 57195528	A	01-12-1982	JP 1442268 C 30-05-1988 JP 62049124 B 17-10-1987
DE 2235063	A1	25-01-1973	IT 1045693 B 10-06-1980 GB 1397136 A 11-06-1975 US 3856281 A 24-12-1974
DE 3537508	A1	24-04-1986	JP 61133208 U 20-08-1986 JP 63024968 Y2 08-07-1988 JP 61138410 U 28-08-1986 JP 63007369 Y2 02-03-1988 JP 1483750 C 27-02-1989 JP 61103616 A 22-05-1986 JP 63030085 B 16-06-1988 JP 1712992 C 27-11-1992 JP 3068084 B 25-10-1991 JP 61150712 A 09-07-1986 FR 2571984 A1 25-04-1986 GB 2165784 A , B 23-04-1986

THIS PAGE BLANK (USPTO)

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2005/001296

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 B21B45/02 B05C5/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 B21B B05C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 006, no. 196 (M-161), 5 October 1982 (1982-10-05) & JP 57 103728 A (NIPPON STEEL CORP), 28 June 1982 (1982-06-28) cited in the application abstract	1-10
A	PATENT ABSTRACTS OF JAPAN vol. 007, no. 047 (M-196), 24 February 1983 (1983-02-24) & JP 57 195528 A (ISHIKAWAJIMA HARIMA JUKOGYO KK; others: 01), 1 December 1982 (1982-12-01) abstract	1-3
	----- -/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

19 May 2005

Date of mailing of the international search report

11/07/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Forciniti, M

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2005/001296

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 22 35 063 A1 (CENTRO SPERIMENTALE METALLURGICO S.P.A., ROM) 25 January 1973 (1973-01-25) figures 3,8	1
A	DE 35 37 508 A1 (NIPPON KOKAN K.K.; NIPPON KOKAN K.K., TOKIO/TOKYO, JP) 24 April 1986 (1986-04-24) figures 1a,1b	1